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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,269	12/06/2001	Ariel Peled	01/22067	4431

7590
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06/25/2007

EXAMINER

BROWN, CHRISTOPHER J

ART UNIT	PAPER NUMBER
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2134

MAIL DATE	DELIVERY MODE
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06/25/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/003,269

Applicant(s)

PELED ET AL.

Examiner

Christopher J. Brown

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 March 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-126 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-126 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Response to Arguments

Applicant's arguments filed 3/22/07 have been fully considered and are persuasive.

Since the examiner failed to indicate the finality of the action, the amendment submitted 2/12/2007 will be entered and considered by the examiner.

Applicant's arguments filed 2/12/2007 have been fully considered but they are not persuasive.

As per claims 1-126 the applicant argues that Kephart does not teach content being internally generated in the network in advance of said extracting. Applicant argues that the current invention is geared towards internal network monitoring. Amended claims 1, 69, 109, and 110 do not claim what the applicant argues. The claims only state that the content is "internally generated in the network". The claims do not define what network the applicant is describing. The term "network" must be read with the broadest reasonable interpretation. Additionally, even if the applicant had claimed what is argues, Kephart 6,732,149 teaches outgoing monitoring of a network, where the content has been internally generated (message) and is being sent out, (Col 9 lines 55-65). Thus Kephart meets the claim limitations.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 125 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. It is not clear where in the specification the applicant states “prepossessed content”.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 125 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The applicant uses the term “prepossessed” but it is unclear what this term means with regards to the invention. The examiner is interpreting the phrase as content created, or possessed, before a description is extracted.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-4, 11, 17, 35, 37, 51, 56-65, and 109-112, 125, 126 are rejected under 35 U.S.C. 102(e) as being anticipated by Kephart US 6,732,149.

As per claims 1-4, 11, 51, 56-65, 109, 110, 111, 112, 125 Kephart teaches a signature extractor to extract a signature from monitored data, (Col 11 lines 45-48). Kephart teaches a database of preobtained signatures, (Col 9 lines 55-60). Kephart teaches the content is internally generated previous to extracting (generating a message). Kephart teaches a comparator for comparing the comparing the extracted signature with the

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signature from the database, (Col 11 lines 50-60). Kephart teaches the comparison searches for predetermined content, (Col 10 lines 39-55). Kephart teaches a decision making unit for producing an enforcement decision, (Col 16 lines 19-35). Kephart teaches prevention of transmitting certain content over a network to control distribution, (Col 10 lines 7-15).

As per claim 17, Kephart teaches the system is used to extract signatures from messages or emails (multimedia) , (Col 10 lines 5-10).

As per claims 35, and 37, Kephart teaches hashing, (Col 11 lines 50-55).

As per claim 126, Kephart teaches a signature extractor to extract a signature from monitored data, (Col 11 lines 45-48). Kephart teaches a database of preobtained signatures, (Col 9 lines 55-60). Kephart teaches the content is internally generated previous to extracting (generating a message). Kephart teaches a comparator for comparing the comparing the extracted signature with the signature from the database, (Col 11 lines 50-60). Kephart teaches the comparison searches for predetermined content, (Col 10 lines 39-55). Kephart teaches a decision making unit for producing an enforcement decision, (Col 16 lines 19-35). Kephart teaches prevention of transmitting certain content over a network to control distribution, (Col 10 lines 7-15). Kephart teaches the content is not sent out of the network because if a signature is found on an inbound or outbound scan, an action is taken including automatically deleting, (Col 5 lines 60-67, Col 16 lines 20-25).

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Barton US 5,646,997.

As per claim 5, Kephart does not teach meta information.

Barton teaches deriving a signature from meta information, (Claim 14)

It would have been obvious to one of ordinary skill in the art to modify the system of Kephart with the meta-data of Barton so that the signature is secure and can't be modified, (Col 3 lines 48).

Claims 6-9, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Vaidya US 6,279,113.

As per claims 6-9, Kephart teaches extracting a signature from data, (Col 11 lines 45-48).

Kephart does not teach the multi-level security.

Vaidya teaches examining every layer to extract a signature, (Col 7 lines 15-24). It would be obvious to one of ordinary skill in the art to modify the system of Kephart with the multiple layers of Vaidya because it is advantageous to be able to detect a signature in any level, (Col 4 lines 28-33).

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Claim 10 rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Vaidya US 6,279,113 in view of Barton US 5,646,997.

As per claims 10 Kephart teaches extracting a signature from data, (Col 11 lines 45-48). Kephart does not teach the multi-level security.

Vaidya teaches examining every layer to extract a signature, (Col 7 lines 15-24). It would be obvious to one of ordinary skill in the art to modify the system of Kephart with the multiple layers of Vaidya because it is advantageous to be able to detect a signature in any level, (Col 4 lines 28-33).

Barton teaches deriving a signature from meta information, (Claim 14)

It would have been obvious to one of ordinary skill in the art to modify the previous system of Kephart-Vaidya with the meta-data of Barton so that the signature is secure and can't be modified, (Col 3 lines 48).

Claims 12-14 rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Kirby US 5,898,784.

As per claim 12, Kephart does not specifically teach a packet network.

Kirby teaches that the network is composed of passing packets, (Col 4 lines 3-7).

It would have been obvious to one of ordinary skill in the art to use the packet network of Kirby with the data monitoring of Kephart, so because the method of packet switching has high efficiency for digital data networking.

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As per claims 13, and 14, Kephart does not specifically teach extracting a signature from the header of a packet.

Kirby teaches extracting a signature from the packet header, (Col 5 lines 13-20).

It would have been obvious to one of ordinary skill in the art to be able to monitor the headers of Kirby in the system of Kephart because it allows signature checking without decryption.

Claims 15 and 16, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Schlener US 6,182,157.

As per claims 15 and 16, Kephart does not teach software agents.

Kephart teaches software agents monitoring a number of nodes, (Col 4 lines 3-6, Fig 1).

It would have been obvious to one of ordinary skill in the art to use the software agents of Schlener with the system of Kephart because software agents are independent and autonomous.

Claims 18-23, 41, 42, and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Vogel US 6,055,663.

As per claims 18-23, 41, 42, and 48 Kephart teaches taking signatures from multimedia data (Col 10 lines 5-10). Kephart does not teach analyzing and combining data into a single communication.

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Vogel teaches analyzing and combining two packet signals into a single channel, (Col 2 lines 35-45). It would have been obvious to one of ordinary skill in the art to modify the system of Kephart with the communication method of Vogel because it provides advantageous error-protection, (Col 2 lines 18-23).

Claims 24-26, 113, 114, and 119-124 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Moskowitz US 2002/0071556.

As per claims 24-26, 113, 114, and 119-124 Kephart does not teach compression.

Moskowitz teaches a signature used in compressed data. Moskowitz teaches steganography, [0020].

It would have been obvious to modify the system of Kephart with the compression of Moskowitz because it allows faster file transfer.

Claims 27-30, 67, 68, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Thomlinson US 6,389,535.

As per claims 27-30, 67, 68, Kephart does not teach entropy and encryption.

Thomlinson teaches use of entropy and encryption, (Claim 7, 8).

It would have been obvious to one of ordinary skill in the art to modify the system of Kephart with the encryption of Thomlinson because it enhances security.

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Claims 31-34, 39, 40, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Rhoads US 2002/0012443.

As per claims 31-34, 39, 40, Kephart teaches signature extraction, Kephart does not teach a media player with a format detector.

Rhoads teaches a media player with format detection, and audio and video data [0087] [0052], [0041].

It would have been obvious to one of ordinary skill in the art to modify the system of Kephart with the playback device of Rhoads, because Rhoads provides portability.

Claims 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Verhoorn III US 6,725,371.

As per claim 36, Kephart does not teach a buffer.

Verhoorn III teaches using a buffer associated with a signature extractor from packet data, (abstract). It would have been obvious to one of ordinary skill in the art to modify the system of Kephart with the buffer or Verhoorn III because the buffer allows multiple packets to be stored and processed.

Claim 38, is rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Robison US 5,043,885.

As per claim 38, Kephart does not teach a hash with offset.

Robinson teaches a hashing system with offset, (Col 6 lines 15-25).

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It would have been obvious to one of ordinary skill in the art to modify the system of Kephart with the hashing of Robinson because it provides a way to index data.

Claims 43-47, 49, 50, 52-55, 66, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Hile US 5,319,776.

As per claims 43-47, 49, 50, Kephart teaches comparing signatures to get the best result.

Kephart does not teach multiple tests for signatures.

Hile teaches multiple tests for signatures, (Col 1 lines 55-60).

It would have been obvious to one of ordinary skill in the art to modify the system of Kephart with the multiple testing of Hile because it provides redundancy.

As per claims 52-55, 66, Kephart teaches comparing signatures and checking probabilities of matching with other comparisons, (Col 11 line 64-Col 12 line 5).

Claims 69, 70, 73, 86, 87, 91-99 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Olnowich US 6,389,476

As per claims 69, and 70, 91-99 Kephart teaches a signature extractor to extract a signature from monitored data, (Col 11 lines 45-48). Kephart teaches a database of preobtained signatures, (Col 9 lines 55-60). Kephart teaches a comparator for comparing the comparing the extracted signature with the signature from the database, (Col 11 lines 50-60). Kephart teaches the comparison searches for predetermined content, (Col 10 lines 39-55). Kephart teaches a decision making unit for producing an enforcement

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decision, (Col 16 lines 19-35). Kephart teaches prevention of transmitting certain content over a network to control distribution, (Col 10 lines 7-15). Kephart does not teach bandwidth management.

Olnowich teaches a system that controls the speed of messages over a network, (col 5 lines 60-65). It would be obvious to one of ordinary skill in the art to use the transmission speed of zero for prevention of transmission of content to prevent sensitive content from leaving a defined network.

As per claim 73 Kephart teaches the system is used to extract signatures from messages or emails (multimedia) , (Col 10 lines 5-10).

As per claims 86, 87 Kephart teaches hashing, (Col 11 lines 50-55).

Claims 71, and 72 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Olnowich US 6,389,476 in view of Schlener US 6,182,157.

As per claims 71, and 72 Kephart-Olnowich does not teach software agents.

Kephart-Olnowich teaches software agents monitoring a number of nodes, (Kephart Col 4 lines 3-6, Fig 1).

It would have been obvious to one of ordinary skill in the art to use the software agents of Schlener with the system of Kephart-Olnowich because software agents are independent and autonomous.

Claims 74-76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Olnowich US 6,389,476 in view of Vaidya US 6,279,113.

As per claims 74-76 Kephart-Olnowich teaches extracting a signature from data, (Col 11 lines 45-48). Kephart-Olnowich does not teach the multi-level security.

Vaidya teaches examining every layer to extract a signature, (Col 7 lines 15-24). It would be obvious to one of ordinary skill in the art to modify the system of Kephart with the multiple layers of Vaidya because it is advantageous to be able to detect a signature in any level, (Col 4 lines 28-33).

Claims 77, 78, and 115-118 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Olnowich US 6,389,476 in view of Moskowitz US 2002/0071556.

As per claims 77, 78, and 115-118 Kephart-Olnowich does not teach compression.

Moskowitz teaches a signature used in compressed data. Moskowitz teaches steganography, [0020].

It would have been obvious to modify the system of Kephart-Olnowich with the compression of Moskowitz because it allows faster file transfer.

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Claims 79-82, 100, 101, 102 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Olnowich US 6,389,476 in view of Thomlinson US 6,389,535.

As per claims 79-82, 100-102 Kephart-Olnowich does not teach entropy and encryption. Thomlinson teaches use of entropy and encryption, (Claim 7, 8).

It would have been obvious to one of ordinary skill in the art to modify the system of Kephart-Olnowich with the encryption of Thomlinson because it enhances security.

Claims 83, 84, 85, 89, 90 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Olnowich US 6,389,476 in view of Rhoads US 2002/0012443.

As per claims 83, 84, 85, 89, and 90 Kephart-Olnowich teaches signature extraction, Kephart-Olnowich does not teach a media player with a format detector.

Rhoads teaches a media player with format detection, and audio and video data [0087] [0052], [0041].

It would have been obvious to one of ordinary skill in the art to modify the system of Kephart-Olnowich with the playback device of Rhoads, because Rhoads provides portability.

Claim 88 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Olnowich US 6,389,476 in view of Robison US 5,043,885.

As per claim 88, Kephart-Olnowich does not teach a hash with offset.

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Robinson teaches a hashing system with offset, (Col 6 lines 15-25).

It would have been obvious to one of ordinary skill in the art to modify the system of Kephart-Olnowich with the hashing of Robinson because it provides a way to index data.

Claims 103-108 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kephart US 6,732,149 in view of Olnowich US 6,389,476 in view of GUPTA WO 99/63727.

As per claims 103-108, Kephart-Olnowich does not teach firewalls or trust networks.

Gupta teaches a system of firewalls to protect a trusted network, (Abstract).

It would have been obvious to one of ordinary skill in the art to modify the system of Kephart-Olnowich with the firewall of Gupta because firewalls enhance the security of the network.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

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advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher J. Brown whose telephone number is (571)272-3833. The examiner can normally be reached on 8:30-6:00.

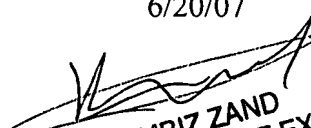
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571)272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher J. Brown



6/20/07



KAMBIZ ZAND
SUPERVISORY PATENT EXAMINER